

**CRF Errors Corrected by the STIC Systems Branch**

OIR 0570  
6/11/2022 0606

Serial Number: 10/016,634A

CRF Processing Date: 6/11/2022  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

**\*Examiner:** The above corrections must be communicated to the applicant in the first Office Action. **DO NOT** send a copy of this form.



OIEPE

## RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/10/016,634A

TIME: 19:51:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06112002\J016634A.raw

*pp 6-8*

3 <110> APPLICANT: Sun, Yongming  
 4 Recipon, Herve  
 5 Ghosh, Malavika  
 6 Liu, Chenghua  
 8 <120> TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes  
 and Proteins  
 10 <130> FILE REFERENCE: DEX-0255  
 12 <140> CURRENT APPLICATION NUMBER: US 10/016634A  
 13 <141> CURRENT FILING DATE: 2001-10-31  
 15 <150> PRIOR APPLICATION NUMBER: US 60/244,258  
 16 <151> PRIOR FILING DATE: 2000-10-31  
 18 <160> NUMBER OF SEQ ID NOS: 176  
 20 <170> SOFTWARE: PatentIn version 3.1  
 22 <210> SEQ ID NO: 1  
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 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
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 30 gaatttacag tttcagtttc caaagaacta tatgaaaaaa ctattata 108  
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 65 <223> OTHER INFORMATION: n=a, c, g, or t

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W--> 119 caattaatga gaaaagaaca ggattganat tagctgtagg atagctcaga ggaaagaaga      120
W--> 121 ctactantt cagnatgtac gagtactagc taaagtaagc agagaagaac ncaacttnatc      180
W--> 123 ttcttnganc actgngnctt tttactgggc ccttaccocct accctgnata gttacattgg      240
W--> 125 cctctctngg tggantaatt tcccttaaga aaacagaagc tattttaacn aagcc          295
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129 <211> LENGTH: 153
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
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142 <211> LENGTH: 236
143 <212> TYPE: DNA

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Input Set : A:\PTO.AMC.txt

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151 atctaaaaat tttaataaaa tagaacctta aaggagaaa aatcacaccg tgagcccaag      180
153 agaactccaa acactcacca acatggggac caaggcacct gattattatg tattga      236
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157 <211> LENGTH: 719
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 5
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164 aatgtatatg cagaaagaaa tgctttgctt agttgctttc tgcttatctt taagactttc      120
166 acactcttct tgtttttttg ttgtcattat taatataccg ttttgaaata cagaaggctc      180
168 aaattactaa cactacagat agcagttgtg gcaataaaaa ataagacaga gtgaaactct      240
170 taatcacata gctgttttct gagatttaaa ttgccactgt cactgttgag tctgatttta      300
172 aaatggtttc agcagttctc tctacttctc tctttccatc cttgctcttt attaaacagt      360
174 atttgatgcc tataatatga taaccttca acttaatttt tggaagggtg cagaacaaat      420
176 gaggaatct ttgtttgtaa tgtataacct atttgttacc tgcaactgaa agacaatgaa      480
178 attgattatt atccaggcat gactgtggct tatttaaate agatactttc tcttttcagc      540
180 tgctgaagat acttgcaatc acctgtggct tttgtattgg tagatacatc caagaaaata      600
182 ttgacttgaa aaaaattgtg cttagagccc tgatctggac attttaaatt cacttaaatt      660
184 gttttaaaaa ttgtgatata ttaatgaaat ttttattttc taactaatta tgaaccttt      719
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188 <211> LENGTH: 687
189 <212> TYPE: DNA
190 <213> ORGANISM: Homo sapiens
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194 <222> LOCATION: (185)..(331)
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201 acagccatt ctgcccctct gctgtcctca ccagcctcgt ggagacccaa aatggctctc      120
203 ttctaggaga ggctaggggg aagggcagag gagctagggt actagcacag agctcaagcc      180
W--> 205 tgatnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
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211 agtgcctgat gtccaactca acttggcaat gacgggggac acatctcctt gtttatTTTT      420
213 atgtttatTTT atTTTTTTTT aatggagtct tgctctggtt gcactccagc ctgggtgaca      480
215 cgacgtgaga ctctgtctca aaaacagact taaaaccctt taaaagtgtg tgataaacat      540
217 cagcttgaca aatatgaacc cagcaccctg gaagcactgg cactatgctg ggtgctgagg      600
219 gagatggcat gaacagaaaa gagagacaca ggcccaagga ggggaagtcca gtgtttggtg      660
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## RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/10/016,634A

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Input Set : A:\PTO.AMC.txt

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232 tggggcccca gcctggggga gaccogtgac tccaggcatg ctatcaggac aacttcaacc 120
234 cgaggggaga tcagctctcc cgcaacctgg tgccgctctc tgacagcaca acagaacctc 180
236 aggggctaca ggatgattca aggaacagtg tgctacagga cctcggtatt cctgctgaga 240
238 gtcatttcct gtgctggatt taccatcaca gggaccagat ttatagaaaa atgaacatgt 300
240 attgttgcta aatggagttg gtcattggagt ggaaactaac aatatgttca cctaaatgtg 360
242 ctacaaccac tcaaggtctg caaacagatt cctattttaga tgttggtgag agctgaattt 420
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257 cgaggggaga tcagctctcc cgcaacctgg tgccgctctc tgacagcaca acagaacctc 180
259 aggggctaca ggatgattca aggaacagtg tgctacagga cctcggtatt cctgctgaga 240
261 gtcatttcct gtgctggatt taccatcaca gggaccagat ttatagaaaa atgaacatgt 300
263 attgttgcta aatggagttg gtcattggagt ggaaactaac aatatgttca cctaaatgtg 360
265 ctacaaccac tcaaggtctg caaacagatt cctattttaga tgttggtgag agctgaattt 420
267 ctggaacaag agatatagat taagactggt gttacatggt gcctacatga cttttcaaaa 480
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273 <211> LENGTH: 743
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280 taattacggc tggaaaagat ttaaactatt agaatagaga agactggatt agagaatatt 120
282 aatattctag aaaataacaa gcttatgaca ggaatactat atcagagtca agagaaaaca 180
284 aaagtatagg taaagactga atttatcata gcccaagaca aggagcagga actgacattt 240
286 agtcaacagt atttattgag tccctactat gtgtgccaaa ataaaaaatt aactaagtac 300
288 tgggtaacag ataaagaaat gattatgaaa gctggcaaat aggaagtgag agatgaaact 360
290 aaagatttag ttttacttgc acactgacct tgcaatttcc ccaatgtaat tttgtctgat 420
292 ctgagttgtg gcaagatatc ctgttttttg tacttacagg tattcctgct gagagtcatt 480
294 tcctgtgctg gatttaccat cacagggacc agatttatag aaaaatgaac atgtattggt 540
296 gctaaatgga gttggtcatg gagtggaaac taacaatatg ttcacctgta agtttttaag 600
298 tgctgtgcca agaaagcctc tttggaggcc attgccataa tctactgttt acatttgtgc 660
300 atttagtttc cgggaaatat tttttaaacc taccctagga gctattcaga accatagagg 720
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308 <213> ORGANISM: Homo sapiens
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313 ttggtatctg aatgcttcaa gatagccttt tgttcccttc taaaaaagag tgggtagtga 120
315 ttgttaagac ttaccgctc ataaatgttt tattacatac ttaatatgtg aagctatcaa 180
317 gtaaggaggt aagggaagtat gttaataggg aagaagatga taaaataccc aaataggaaa 240

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## RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/10/016,634A

TIME: 19:51:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06112002\J016634A.raw

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321 gaacaagtct tactggcttc atgcaatgca aacatttttt tcttacgtat ctgacagatc 360
323 aaggtgggtca ggtagctctc ctgagcagtt ttccaccatg tgggtgattca gggatccaa 420
325 cacattctat cagcaggctt agccatattg gagtttttca cttcggtgat gaggatgagg 480
327 gagaaagtgg gagagagtga aaagagggag aaaggtggaa aagggagaaa gaaggagaa 540
329 gtggaaag 548
332 <210> SEQ ID NO: 11
333 <211> LENGTH: 797
334 <212> TYPE: DNA
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340 ctggagccag gtggattgag tgggaatcct agctctgcta aagggacgta cttgcctaag 120
342 tctcctcctc agtaaataagg atactagtga taacatcttc atagagttgt catgagaatt 180
344 aatgaataa tatatgtaaa ggcttaaadc agcacctgga ctacatataa aggtgatca 240
346 ataaatatct actttggtat ctgaatgctt caagatagcc ttttgttccc ttctaaaaaa 300
348 gagtgggtag tgattgttaa gacttaccog ctcataaatg ttttattaca tacttaatat 360
350 gtgaagctat caagtaagga ggtaagggaag tatgttaata ggggaagaaga tgataaaata 420
352 cccaaatagg aaaccataat gccaaacttc taagcttaag ctgactgtaa caaagaactg 480
354 gctttgtaac aaagaacaag tcttactggc ttcatgcaat gcaaacattt ttttcttacg 540
356 tatctgacag atcaagggtg tcaggtagct ctccctgagca gttttccacc atgtgggtgat 600
358 tcagggatcc aagcacattc tatcacgagg cttagccata ttggagtttt tcacttcggt 660
360 gatgaggatg agggagaaaag tgggagagag tgaaaagagg gagaaagggtg gaaaagggag 720
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364 aaaaaacaaa aaaaaaa 797
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375 tacttacttt agagcttcac ttttatatca tctatatctg acttggaac catctgtgtt 120
377 tttgtctttg tggtcagcca ttattgtttg ttttgccatg atatatgtcg gaatgatatt 180
379 atttgactct cctttaagta cctcctgctt ctttgagtaa ggagatccta ccagtatcta 240
381 acagaaaatc ttgagcttgc agaataacag aaaagaaaaa aaaaacaaaa acacaacttg 300
383 ccaaaacact gaaactccct ctacttatga aataaacaaa ctggcttaaa ttgggtggaa 360
385 tcattatggc caaatggtgt ttgggcagaa tcaccttgct gaggtcaccg tctgaatttt 420
387 cactgcctgt ttcatacaaa ctccccctca gtttgcccat gacatccatg aggaggcaat 480
389 gagcttgaga gtaacgtttc agtataaaat ggctttctct taaaaacctg atgtcatagt 540
391 atgggctact agcacttc 558
394 <210> SEQ ID NO: 13
395 <211> LENGTH: 596
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404 gtcattctgc cagaaatggg ctgggacttc cccatacatg ggacacgtag atcaactttc 180
406 tccaagaacc accaacctgg catgcagtga tgacctctgc agtagacagg gatttaggct 240

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/11/2002  
PATENT APPLICATION: US/10/016,634A      TIME: 19:51:17

Input Set : A:\PTO.AMC.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:56; N Pos. 64  
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Seq#:68; N Pos. 255,256,257,258,259,260,261,262,263,264,265,266,267,268,269

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/016,634ADATE: 06/11/2002  
TIME: 19:51:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\06112002\J016634A.raw

Seq#:68; N Pos. 270,271,272,273,274,275,276,277,278,279,280,281,282,283,284  
Seq#:68; N Pos. 285,286,287,288,289,290,291,292,293,294,295,296,297,298,299  
Seq#:68; N Pos. 300,301,302,303,304,305,306,307,308,309,310,311,312,313,314  
Seq#:68; N Pos. 315,316,317,318,319,320,321,322,323,324,325,326,327,328,329  
Seq#:68; N Pos. 330,331,332,333,334,335,336,337,338,339,340,341,342,343,344  
Seq#:68; N Pos. 345,346,347,348,349,350,351,352,353,354  
Seq#:71; N Pos. 957  
Seq#:72; N Pos. 231,239,242,248,259  
Seq#:73; N Pos. 547,555,558,564,575  
Seq#:76; N Pos. 174  
Seq#:79; N Pos. 80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99  
Seq#:79; N Pos. 173,175,206  
Seq#:80; N Pos. 116,148  
Seq#:83; N Pos. 7,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107  
Seq#:83; N Pos. 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122  
Seq#:83; N Pos. 123,124,125,126,127,128,129,130,131,132,133,134,135,136,137  
Seq#:83; N Pos. 138,139,140,141,142,143,144,145,146,147,148,149,150,151,152  
Seq#:83; N Pos. 153,154,155,156,157,158,159,160,161,162,163,164,165,166,167  
Seq#:83; N Pos. 168,169,170,171,172,173,174,175,176,177,178,179,180,181,182  
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Seq#:83; N Pos. 233,234,235,236,237,238,239,240,241,242,243,244,245,246,247  
Seq#:83; N Pos. 248,249,250,251,252,253,254,255,256,257,258,259,260,261,262  
Seq#:83; N Pos. 263,264,265,266,267,268,269,270,271,272,273,274,275,276,277  
Seq#:83; N Pos. 278,279,280,281,282,283,284,285,286,287,288,289,290,291,292  
Seq#:83; N Pos. 293,294,295,296,297,298,299,300,301,302,303,304,305,306,307  
Seq#:83; N Pos. 308,309,310,311,312,313,314,315,316,367,368,369,370,371,372  
Seq#:83; N Pos. 373,374,375,376,377,378,379,380,381,382,383,384,385,386,387  
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Seq#:83; N Pos. 403,404,405,406,407,408,409,410,411,412,413,414,415,416,417  
Seq#:83; N Pos. 418,419,420,421,422,423,424,425,426,427  
Seq#:91; N Pos. 263,327  
Seq#:93; N Pos. 19,21,35,40,60,70,92,93,95,97,121,122,131,148  
Seq#:94; N Pos. 19,21,35,40,60,70,92,93,95,97,121,122,131,148  
Seq#:95; N Pos. 109,110,111,112,113,114,115,116,117,118,119,120,121,122,123  
Seq#:95; N Pos. 124,125,126,127,128,129,130,131,132,133,134,135,136,137,138  
Seq#:95; N Pos. 139,140,141,142,143,144,145,146,147,148,149,150,151,152,153  
Seq#:95; N Pos. 154,155,156,157,158,159,160,161,162,163,164,165,166,167,168  
Seq#:95; N Pos. 169,170,171,172,173,313,315  
Seq#:96; N Pos. 212,213,214,215,216,217,218,219,220,221,222,223,224,225,226  
Seq#:96; N Pos. 227,228,229,230,231  
Seq#:113; Xaa Pos. 14,17  
Seq#:117; Xaa Pos. 46  
Seq#:121; Xaa Pos. 51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69  
Seq#:121; Xaa Pos. 70,71,72  
Seq#:122; Xaa Pos. 15  
Seq#:124; Xaa Pos. 7,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30  
Seq#:124; Xaa Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43  
Seq#:153; Xaa Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24  
Seq#:153; Xaa Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/016,634A

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Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\06112002\J016634A.raw

Seq#:155; Xaa Pos. 22  
Seq#:156; Xaa Pos. 10,13,14,16,20  
Seq#:159; Xaa Pos. 7  
Seq#:161; Xaa Pos. 7,8,9,10,11,12,13  
Seq#:162; Xaa Pos. 9,20  
Seq#:164; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:164; Xaa Pos. 39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57  
Seq#:164; Xaa Pos. 58,59,60,61,62,63,64,65,66,67,79,80,81,82,83,84,85,86,87  
Seq#:164; Xaa Pos. 88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104  
Seq#:164; Xaa Pos. 105,106,107,108,109,110,111,112,113  
Seq#:170; Xaa Pos. 3,4,13,16  
Seq#:172; Xaa Pos. 28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:172; Xaa Pos. 47,48,49  
Seq#:173; Xaa Pos. 14,15,16,17,18,19,20,21